

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	Not Assigned 10/798,058		
		Filing Date	March 11, 2004		
		First Named Inventor	Mathis		
		Group Art Unit	Not Assigned 1653		
		Examiner Name	Not Assigned Robert Mondesi		
Sheet	1	of	3	Attorney Docket Number	035718/274644(5718-201)

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
RM	1	US-5,693,491	12-02-1997	Bulla et al.	
RM	2	US-5,804,393	09-08-1998	Geiser et al.	
RM	3	US-6,007,981	12-28-1999	Bulla	

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
RM	4	WO 96/12964 A1	02-05-1996	University of Wyoming		
RM	5	WO 98/59048 A1	12-30-1998	University of Wyoming		
RM	6	WO 01/34807 A2	05-17-2001	Bulla, L.A., Jr., et al.		

OTHER DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
RM	7	DORSCH, J.A., "Isolation and Characterization of the Insecticidal Toxin Binding Site From the Receptor BT-r ₁ of <i>Manduca sexta</i> ," May 1998, A dissertation submitted to the Department of Molecular Biology and the Graduate School of the University of Wyoming, Laramie, Wyoming	
	8	DORSCH, J.A., et al., "CRY1A Toxins of <i>Bacillus thuringiensis</i> bind specifically to a region adjacent to the membrane-proximal extracellular domain of BT-R ₁ in <i>Manduca sexta</i> : involvement of a cadherin in the entomopathogenicity of <i>Bacillus thuringiensis</i> ," <i>Insect Biochemistry and Molecular Biology</i> , 2002, pp. 1025-1036, Vol. 32.	
	9	ESTRUCH, J.J., et al., "Transgenic plants: An emerging approach to pest control," <i>Nature Biotechnology</i> , February 1997, pp. 137-141, Vol. 15	
	10	FRANCIS, B.R., and BULLA, L.A., Jr., "Further Characterization of BT-R ₁ , the Cadherin-like Receptor for Cry1Ab Toxin in Tobacco Hornworm (<i>Manduca Sexta</i>) Midguts," <i>Insect Biochem. Molec. Biol.</i> , 1997, pp. 541-550, Vol. 27, No. 6	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Application Number	Not Assigned 10/798.058		
		Filing Date	March 11, 2004		
		First Named Inventor	Mathis		
		Group Art Unit	Not Assigned 1653		
		Examiner Name	Not Assigned Robert Mondesi		
Sheet	2	of	3	Attorney Docket Number	035718/274644(5718-201)

RM	11	FRANKLIN, S.W., et al., "Southern analysis of BT-R ₁ , the <i>Manduca sexta</i> gene encoding the receptor for the Cry1Ab toxin of <i>Bacillus thuringiensis</i> ," <i>Mol Gen Genet</i> , 1997, pp. 517-524, Vol. 256	
	12	GAHAN, J.L., et al., "Identification of a Gene Associated with Bt Resistance in <i>Heliothis virescens</i> ," <i>Science</i> , August 3, 2001, pp. 857-860, Vol. 293	
	13	GARCZYNSKI, S.F., et al., "Identification of Putative Insect Brush Border Membrane-Binding Molecules Specific to <i>Bacillus thuringiensis</i> δ -Endotoxin by Protein Blot Analysis," <i>Applied and Environmental Microbiology</i> , October 1991, pp. 2816-2820, Vol. 57, No. 10	
	14	GILL, S.S., et al., "Identification, Isolation, and Cloning of a <i>Bacillus thuringiensis</i> CryIAc Toxin-binding Protein from the Midgut of the Lepidopteran Insect <i>Heliothis virescens</i> ," <i>The Journal of Biological Chemistry</i> , November 10, 1995, pp. 27277-27282, Vol. 270, No. 45	
	15	HOFTE, H. and WHITELEY, H.R., "Insecticidal Crystal Proteins of <i>Bacillus thuringiensis</i> ," <i>Microbiological Reviews</i> , June 1989, pp. 242-255, Vol. 53, No. 3	
	16	HUA, G., et al., "Binding Analyses of <i>Bacillus thuringiensis</i> Cry δ -Endotoxins Using Brush Border Membrane Vesicles of <i>Ostrinia nubilalis</i> ," <i>Applied and Environmental Microbiology</i> , February 2001, pp. 872-879, Vol. 67, No. 2	
	17	IHARA, H., et al., "Purification and partial amino acid sequences of the binding protein from <i>bombyx mori</i> for CryIAa δ -endotoxin of <i>Bacillus thuringiensis</i> ," <i>Comparative Biochemistry and Physiology</i> , Part B, 1998, pp. 197-204, Vol. 120	
	18	JURAT-FUENTES, J.L., et al., "Altered Glycosylation of 63-68-Kilodalton Microvillar Proteins in <i>Heliothis virescens</i> Correlates with Reduced Cry1 Toxin Binding, Decreased Pore Formulation, and Increased Resistance to <i>Bacillus thuringiensis</i> Cry1 Toxins," <i>Applied and Environmental Microbiology</i> , November 2002, pp. 5711-5717, Vol. 68, No. 11	
	19	KEETON, T.P., and BULLA, L.A., Jr., "Ligand Specificity and Affinity of BT-R ₁ , the <i>Bacillus thuringiensis</i> Cry1A Toxin Receptor from <i>Manduca sexta</i> , Expressed in Mammalian and Insect Cell Cultures," <i>Applied and Environmental Microbiology</i> , September 1997, pp. 3419-3425, Vol. 63, No. 9	
	20	KEETON, T.P., et al., "Effects of Midgut-Protein-Preparative and Ligand Binding Procedures on the Toxin Binding Characteristics of BT-R ₁ , a Common High-Affinity Receptor in <i>Manduca sexta</i> for Cry1A <i>Bacillus thuringiensis</i> Toxins," <i>Applied and Environmental Microbiology</i> , June 1998, pp. 2158-2165, Vol. 64, No. 6	
✓	21	KNIGHT, P.J.K., et al., "The receptor for <i>Bacillus thuringiensis</i> CryIA(c) delta-endotoxin in the brush border membrane of the lepidopteran <i>Manduca sexta</i> is aminopeptidase N," <i>Molecular Microbiology</i> , 1994, pp. 429-436, Vol. 11, No. 3	

Examiner Signature		Date Considered	
--------------------	--	-----------------	--

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

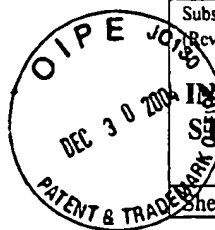
Substitute for form 1449/PTO (Revised 04/2003)		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	Not Assigned 10/798,058		
		Filing Date	March 11, 2004		
		First Named Inventor	Mathis		
		Group Art Unit	Not Assigned 1653		
		Examiner Name	Not Assigned Robert Mondesi		
Sheet	3	of	3	Attorney Docket Number	035718/274644(5718-201)

RM	22	LEE, M.K. et al., "Aminopeptidase N Purified from Gypsy Moth Brush Border Membrane Vesicles is a Specific Receptor for <i>Bacillus thuringiensis</i> CryIaC Toxin," <i>Applied and Environmental Microbiology</i> , August 1996, pp. 2845-2849, Vol. 62, No. 8	
	23	MAATY, W.S.A., "Identification, Purification and Cloning of a High-Affinity Invertebrate Protocadherin Receptor BT-R ₂ from the Pink Bollworm (<i>Pectinophora Gossypiella</i>) for <i>Bacillus Thuringiensis</i> CRYIA Toxins," Dissertation submitted to the Dept. of Molecular Biology and The Graduate School of the University of Wyoming, July 1999, pp. 1-146	
	24	McGAUGHEY, W.H., et al., "Bt resistance management--A plan for reconciling the needs of the many stakeholders in Bt-based products," <i>Nature Biotechnology</i> , February 1998, pp. 144-146, Vol. 16	
	25	MIDBOE, E.G., "Characterization of the BT-R ₁ Gene and Its Expression in <i>Manduca sexta</i> ," Dissertation submitted to the Dept. of Molecular Biology and The Graduate School of the University of Wyoming, July 1999, pp. 1-135	
	26	NAGAMATSU, Y., et al., "Cloning, Sequencing, and Expression of the <i>Bombyx mori</i> Receptor for <i>Bacillus thuringiensis</i> Insecticidal CryIA(a) Toxin," <i>Biosci. Biotechnol. Biochem.</i> , 1998, pp. 727-734, Vol. 62, No. 4	
	27	NAGAMATSU, Y., et al., "The cadherin-like protein is essential to specificity determination and cytotoxin action of the <i>Bacillus thuringiensis</i> insecticidal CryIAa toxin," <i>FEBS Letters</i> , 1999, pp. 385-390, Vol. 460	
	28	ODDOU, P., et al., "Immunologically unrelated <i>heliiothis</i> sp. And <i>Spodoptera</i> sp. Midgut membrane-proteins bind <i>Bacillus thuringiensis</i> CryIA(b) δ -endotoxin," <i>Eur. J. Biochem.</i> , 1993, pp. 145-150, Vol. 212	
	29	ROUSH, R.T., and SHELTON, A.M., "Assessing the odds: The emergency of resistance to Bt transgenic plants," <i>Nature Biotechnology</i> , September 1997, pp. 816-817, Vol. 15	
	30	RUDINGER, J., "Characteristics of the amino acids as components of a peptide hormone sequence," <i>Peptide Hormones</i> , June 1976, pp. 1-7, J. A. Parsons, Editor; University Park Press, Baltimore	
	31	SKOLNICK, J. and FETROW, J.S., "From genes to protein structure and function: novel applications of computational approaches in the genomic era," <i>Trends in Biotechnology</i> , 2000, pp. 34-39, Vol. 18, No. 1	
	32	VADLAMUDI, R.K., et al., "A Specific Binding Protein from <i>manduca sexta</i> for the Insecticidal Toxin of <i>Bacillus thuringiensis</i> subsp. berliner," <i>J. Biol. Chem.</i> , June 15, 1993, pp. 12334-12340, Vol. 268, No. 17	
↓	33	VADLAMUDI, R.K. et al., "Cloning and Expression of a Receptor for an Insecticidal Toxin of <i>Bacillus thuringiensis</i> ," <i>J. Biol. Chem.</i> , March 10, 1995, pp. 5499-5494, Vol. 270, No. 10	

RTA01/21 50333v1

Examiner Signature	/Robert Mondesi/	Date Considered	07/24/2006
-----------------------	------------------	--------------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449/PTO Revised 04/2003)		Complete if Known	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Application Number	10/798,058
		Filing Date	March 11, 2004
		First Named Inventor	Mathis
		Group Art Unit	1653
		Examiner Name	Not Assigned Robert Mondesi
Sheet 1 of 1	Attorney Docket Number	035718/274644	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear

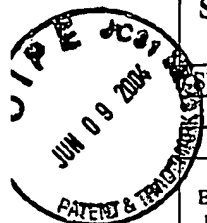
FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
RM	35	WO 01/36639 A2	05-25-2001	Pioneer Hi-Bred International, Inc.	Page 2, Lines 18-32; Claims 1-25; Seq. ID NOS. 1-6	
RM	36	WO 02/074079 A2	09-26-2002	Clemson University	Page 12, Line 1; Page 14, Line 29	

OTHER DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) , volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached
RM	37	NAKANISHI, K., et al., "Aminopeptidase N Isoforms from the Midgut of <i>Bombyx mori</i> and <i>Plutella xylostella</i> --Their Classification and the Factors that Determine Their Binding Specificity to <i>Bacillus thuringiensis</i> Cry1A Toxin," <i>FEBS Letters</i> , May 22, 2002, pp. 215-220, Vol. 519, No. 1-3	

RTA-01/2171913v1

Examiner Signature	/Robert Mondesi/	Date Considered	07/24/2006
--------------------	------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.



Substitute for form 1449/PTO (Revised 04/2003) INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known	
		Application Number	10/798,058
		Filing Date	March 11, 2004
		First Named Inventor	John P. Mathis
		Group Art Unit	1653
		Examiner Name	Not Assigned Robert Mondesi
Sheet 1 of 1	Attorney Docket Number	035718/274644	

U. S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number - Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages of Relevant Figures Appear
		US-			
		US-			

FOREIGN PATENT DOCUMENTS						
Examiner Initials	Cite No.	Foreign Patent Document Country Code - Number Kind Code (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	English Language Translation Attached
RM	34	EP 1 124 426 B1	01-22-2003	Mycogen Corporation		

OTHER DOCUMENTS			
Examiner Initials	Cite No.	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s) , volume-issue number(s), publisher, city and/or country where published.	English Language Translation Attached

RTA01/2156329v1

Examiner Signature	/Robert Mondesi/	Date Considered	07/24/2006
--------------------	------------------	-----------------	------------

*Examiner: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.